

**Flood Control Project Maintenance  
Levee Inspections****LMA District Cover Sheet****Spring 2015 Levee Inspection Results****Sutter Maintenance Yard Maintenance Area 0017**

	Spring (March - May)	Summer ** (June - August)	Fall (September - November)	Winter ** (December - February)
* Overall LMA Rating (Fall Only)				

\*\* Non-receipt of Summer or Winter Inspection Reports may effect overall annual rating.

\*

SPRING INSPECTIONS: Overall maintenance ratings are not determined for the spring inspection results. Individual maintenance deficiencies are rated using the same criteria in the spring and in the fall.

FALL INSPECTIONS: The overall maintenance rating shown above is based on operation and maintenance deficiencies identified within the attached unit inspection reports. This rating is not intended to be an indication of risk.

Comments


**Flood Control Project Maintenance  
Levee Inspections**

**Unit Cover Sheet**

**Spring 2015 Levee Inspection Results**

**Sutter Maintenance Yard Maintenance Area 0017**

Waterway			Bank	Unit Miles
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek			Left	3.87
	Spring (March - May)	Summer (June - August)	(September - November) Fall	Winter (December - February)
Unit Maintenance Rating (Fall Only)				
Date of Inspection	03/12/2015 - 03/12/2015			
DWR Inspector	Bob Duffey			
Accompanied By	Bryan Reniff Sutter Maintenance Yard			

**Summer & Winter Inspections**

The Local Maintaining Agency (LMA) is responsible for summer and winter inspections. The LMA is required to submit a report regarding summer and winter inspections to the California Department of Water Resources (DWR).

DWR must be informed on the:

- a) completion of the inspection
- b) any changes other than the results of normal maintenance
- c) corrections to deficiencies noted in this report

If additional items are noted, further documentation of those items must also be submitted.

The LMA should submit this information to DWR using the LMA web application tool available at:

<http://cdec.water.ca.gov/lma.html>

If the LMA is unable to submit information on this webpage, please contact DWR for assistance.

*The LMA should submit the information and any associated documentation by September 30 for summer inspections and March 31 for winter inspections.*

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2015**

**Sutter Maintenance Yard Maintenance Area 0017**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	03/12/2015 03/12/2015	Bob Duffey

LM Start		Rating **	A	Issue No.	7
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Operations & Maintenance Manuals			°	°
				°	°
DWR ID	DWR_MA0017_01_s _ 2013_7				
Action/Comments					
Inspector Comments: The LMA has the O&M manuals.					

No Photos

LM Start		Rating **	A	Issue No.	8
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Emergency Supplies & Equipment			°	°
				°	°
DWR ID	DWR_MA0017_01_s _ 2013_8				
Action/Comments					
Inspector Comments: The LMA has adequate flood fight supplies and equipment.					

No Photos

LM Start		Rating **	A	Issue No.	9
LM End		Issue Type +	Ma	Location *	N/A
Category	Earthen Levee		GPS Latitude/Longitude		
			Start	End	
Item	Flood Preparedness & Training			°	°
				°	°
DWR ID	DWR_MA0017_01_s _ 2013_9				
Action/Comments					
Inspector Comments: The LMA completed flood fight training in 2014.					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown	<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable	N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain	<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2015**

**Sutter Maintenance Yard Maintenance Area 0017**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	03/12/2015 03/12/2015	Bob Duffey

LM Start	3.80	Rating **	A	Issue No.	476
LM End	3.80	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.144495 °	39.144495 °
				-122.906355 °	-122.906355 °
DWR ID	DWR_MA0017_01_s _ 2015_476				
Action/Comments					
Control annual grass and weeds on the levee slopes and easements. Inspector Comments: Sutter Yard sprayed the landside slope.					

Photo 1 of 1 : SP\_2015\_MA0017\_339\_476\_20150406\_00095.jpg



View of the Sprayed slope by Sutter Yard.

LM Start	4.09	Rating **	U	Issue No.	2
LM End	7.23	Issue Type +	Ma	Location *	WS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Trim / Thin Trees			39.142155 °	39.118735 °
				-122.902343 °	-122.884892 °
DWR ID	DWR_MA0017_01_s _ 2012_2				
Action/Comments					
Thin trees to allow visibility of the ground and room to flood fight.					

Photo 1 of 1 : SP\_2015\_MA0017\_339\_2\_20150406\_00101.jpg



View of the trees along the waterside slope and toe.

LM Start	4.09	Rating **	A	Issue No.	1
LM End	7.23	Issue Type +	Ma	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Vegetation			39.142155 °	39.118675 °
				-122.902343 °	-122.884772 °
DWR ID	DWR_MA0017_01_s _ 2015_1				
Action/Comments					
Remove the wild growth other than native grasses from the levee slopes.					

Photo 1 of 1 : SP\_2015\_MA0017\_339\_1\_20150406\_00100.jpg



View of the native grasses along the landside slope.

<b>* Location</b>		<b>** Rating</b>		<b>+ Issue Type</b>	
LS : Land Side	N/A : Not Applicable	A : Acceptable	N : Not Inspected/Rated	Ma : Maintenance Deficiency	
WS : Water Side		M : Minimally Acceptable	C : Corrected	Ob : Design & System Obsolescence	
CR : Crown		U : Unacceptable	A/W : Acceptable but Monitor & Maintain	En : Enforcement	

**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2015**

**Sutter Maintenance Yard Maintenance Area 0017**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	03/12/2015 03/12/2015	Bob Duffey

LM Start	4.28	Rating **	M	Issue No.	3
LM End	4.28	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.140422 °	39.140422 °
				-122.902022 °	-122.902022 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:45783 DS_ID:846 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/23/2015 Still no lid on riser and wheel to operate slide gate is missing. No lid on riser-may or may not be an issue. 6/2/2013 Same as last inspection. 12/23/2013 Same as last inspection. 7/3/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch CMP drainpipe through the levee, 19 feet below the crown. Slide gate in 36-inch CMP riser on the waterward slope (USCE 1909). Authorized under ABO 11462, 1975. FS Date: 04/24/2015					

No Photos

LM Start	5.27	Rating **	M	Issue No.	18
LM End	5.27	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.127544 °	39.127544 °
				-122.893763 °	-122.893763 °
DWR ID	DWR_MA0017_01_s_2014_18				
Action/Comments					
Tree or limb					

Photo 1 of 2 : SP\_2015\_MA0017\_339\_18\_20150310\_00004.jpg



View of the downed tree along the landside toe.

* Location LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2015**

**Sutter Maintenance Yard Maintenance Area 0017**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	03/12/2015 03/12/2015	Bob Duffey

LM Start	5.27	Rating **	M	Issue No.	18 (cont)
LM End	5.27	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.127544 °	39.127544 °
				-122.893763 °	-122.893763 °
DWR ID	DWR_MA0017_01_s_2014_18				
Action/Comments					
Tree or limb					

Photo 2 of 2 : SP\_2015\_MA0017\_339\_18\_20150406\_00099.jpg



Sutter Yard remove the tree from the landside toe.

LM Start	5.38	Rating **	M	Issue No.	4
LM End	5.38	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.127451 °	39.127451 °
				-122.893450 °	-122.893450 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44729 DS_ID:853 EP_NO: 11469 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/23/2015 Sack rings still built up underneath the pipe flood fight materials-ring levees around both LS and WS slopes at pipe crossing. This may or may not be an issue 6/2/2013 Same as last inspection 12/23/2013 Same as last inspection 7/3/2014 Same as last inspection. FIELD_STRUCT_DESC: 2 of 2: 36-inch steel drainpipe through the levee, 5.0 feet below the crown. Flap gate and air vent on the waterward slope. (ABO No.11469-R.D.# 2070). This entry matches the Drainage/Irrigation Structure referenced in O&M manual (Levee Mile 5.43). Permit document and O&M referred As-built drawings are available. O&M manual Vol. 5, Revision Year 2010. FS Date: 04/24/2015					

No Photos

<b>* Location</b> LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2015**

**Sutter Maintenance Yard Maintenance Area 0017**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	03/12/2015 03/12/2015	Bob Duffey

LM Start	5.38	Rating **	M	Issue No.	10
LM End	5.38	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.127449 °	39.127449 °
				-122.893460 °	-122.893460 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44730 DS_ID:847 EP_NO: 11469 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/23/2015 Sack ring is still built up underneath the pipe flood fight materials-ring levees around both LS and WS slopes at pipe crossing. This may or may not be an issue 6/2/2013 Same as last inspection 12/23/2013 Same as last inspection 7/3/2014 Same as last inspection. FIELD_STRUCT_DESC: 1 of 2: 16 inch steel drainpipe through the levee 5-feet below the crown. Drainage pumping plant on the landward side. Flap gate on the waterward end. (ABO No.11469-R.D.# 2070). This entry matches the Drainage/Irrigation Structure referenced in O&M manual (Levee Mile 5.43). Permit document and O&M referred As-built drawings are available. O&M manual Vol. 5, Revision Year 2010. FS Date: 04/24/2015					

No Photos

LM Start	5.81	Rating **	M	Issue No.	11
LM End	5.81	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.127612 °	39.127612 °
				-122.885520 °	-122.885520 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44731 DS_ID:848 EP_NO: 11457 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/23/2015 No cover on riser and no wheel to operate gate. No cover on CMP riser and no handle for actuating gate. This may or may not be an issue 6/2/2013 Handle to operate gate was in place but still no cover on riser 12/23/2013 Same as last inspection 7/3/2014 Same as last inspection. FIELD_STRUCT_DESC: 24-inch drainpipe under patrol road and through the levee, 13.5 feet below the crown. Concrete "U" shaped headwall on the landward end. Slide gate in 36-inch CMP riser on the waterward slope. Riser unit is mounted on concrete base. (ABO No.11457-Crawford). O&M manual Vol. 5, Revision Year 2010 FS Date: 04/24/2015					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2015**

**Sutter Maintenance Yard Maintenance Area 0017**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	03/12/2015 03/12/2015	Bob Duffey

LM Start	5.94	Rating **	C	Issue No.	5
LM End	5.94	Issue Type +	En	Location *	LS
Category	Earthen Levee			GPS Latitude/Longitude	
				Start	End
Item	Encroachments			39.126003 °	39.126003 °
				-122.883353 °	-122.883353 °
DWR ID	DWR_MA0017_01_s _ 2013_5				
Action/Comments					
Pipe Inspector Comments: View of the pipe encroachment crossing the crown.					

No Photos

LM Start	6.02	Rating **	M	Issue No.	12
LM End	6.02	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.126057 °	39.126057 °
				-122.883096 °	-122.883096 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44735 DS_ID:20589 EP_NO: N/A Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/23/2015 12" pipe still ran over the top of roadway.  No permit for crossing 6/2/2013 Same as last inspection 12/23/2013 No signs of 12" pvc. Portable tow-pump was lowered down on waterside with 12" pipe ran over roadway 7/3/2014 Same as last inspection. FIELD_STRUCT_DESC: 12-inch HDPE storm drain pipe through the crown of the levee 1.5-feet below the crown. FS Date: 04/24/2015					

No Photos

* Location LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		** Rating A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		+ Issue Type Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2015**

**Sutter Maintenance Yard Maintenance Area 0017**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	03/12/2015 03/12/2015	Bob Duffey

LM Start	6.03	Rating **	U	Issue No.	13
LM End	6.03	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.126038 °	39.126038 °
				-122.883351 °	-122.883351 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44736 DS_ID:20587 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 4/23/2015 Erosion on WS shoulder is still present. No permit for this crossing. This is a primer line, used to fill up main pipe before its pump is turned on (Permit No. 114678/2/2013 Erosion on WS shoulder above pipe 12/23/2013 Same as last inspection 7/3/2014 Same as last inspection. FIELD_STRUCT_DESC: 4-inch PVC conduit through the levee 2-feet below the crown with plastic pipe running through it to pump on LS. FS Date: 04/24/2015					

No Photos

LM Start	6.03	Rating **	U	Issue No.	14
LM End	6.03	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.126038 °	39.126038 °
				-122.883351 °	-122.883351 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44737 DS_ID:20588 EP_NO: N/A Repair Type: Urgent Crossing Status: Found UCIP Comments: 4/23/2015 Erosion still present on WS shoulder. No permit for this crossing. It is unclear what these hydraulic lines are for, but it is probably the works for a hydraulic butterfly valve at the outlet 8/2/2013 Erosion on WS shoulder above pipe 12/23/2013 Same as last inspection 7/3/2014 Same as last inspection. FIELD_STRUCT_DESC: 4-inch PVC conduit through the levee 2-feet below the crown with hydraulic lines running through it to pump on LS shoulder. FS Date: 04/24/2015					

No Photos

<b>* Location</b> LS : Land Side    N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable M : Minimally Acceptable U : Unacceptable N : Not Inspected/Rated C : Corrected A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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**Flood Control Project Maintenance  
Levee Inspections**

**Levee Inspection Report By Mile - Spring 2015**

**Sutter Maintenance Yard Maintenance Area 0017**

Waterway	Bank	Unit Miles	Inspection Start/End	Inspector
Unit No. 01 Lake County Sutter Maintenance Yard - Middle Creek	Left	3.87	03/12/2015 03/12/2015	Bob Duffey

LM Start	6.03	Rating **	M	Issue No.	15
LM End	6.03	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.126027 °	39.126027 °
				-122.883371 °	-122.883371 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44738 DS_ID:850 EP_NO: 11467 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/23/2015 Same as last inspection This pipe and appurtances do not match what was described in the permit (PN: 11467). Does not appear to be in compliance with board regulation 6/2/2013 Same as last inspection 12/23/2013 Same as last inspection 7/3/2014 Same as last inspection. FIELD_STRUCT_DESC: 12-inch drainpipe through the levee, 2-feet below the crown. Butterfly Valve on the landward shoulder. Pump and electric panel along with multiple valves and appurtances on LS shoulder. (ABO No.11467-Modglin) O&M manual Vol. 5, Revision Year 2010. FS Date: 04/24/2015					

No Photos

LM Start	7.19	Rating **	M	Issue No.	16
LM End	7.19	Issue Type +	En	Location *	LS
Category	Supplemental			GPS Latitude/Longitude	
				Start	End
Item	DWR UCIP Field Study			39.120083 °	39.120083 °
				-122.886502 °	-122.886502 °
DWR ID					
Action/Comments					
Inspector Comments: FS_ID:44739 DS_ID:851 EP_NO: 11467 Repair Type: Non-Urgent Crossing Status: Found UCIP Comments: 4/23/2015 Same as last inspection. Pipe still needs to be properly abandoned. Pipe should be properly abandoned 6/2/2013 Same as last inspection 12/23/2013 Same as last inspection 7/3/2014 Same as last inspection. FIELD_STRUCT_DESC: 1 of 2: *Abandoned* 16-inch Steel drainpipe through the levee 8-feet below the crown. Drainage pumping plant on the landward side. Flap gate on the waterward end. Steel plate welded on end of pipe at LS toe. (ABO No.11467- Modglin).This entry matches the Drainage/Irrigation Structure referenced in O&M manual (Levee Mile 7.19). Permit document and O&M referred As-built drawings are available. O&M manual Vol. 5, Revision Year 2010 FS Date: 04/24/2015					

No Photos

<b>* Location</b> LS : Land Side N/A : Not Applicable WS : Water Side CR : Crown		<b>** Rating</b> A : Acceptable N : Not Inspected/Rated M : Minimally Acceptable C : Corrected U : Unacceptable A/W : Acceptable but Monitor & Maintain		<b>+ Issue Type</b> Ma : Maintenance Deficiency Ob : Design & System Obsolescence En : Enforcement	
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